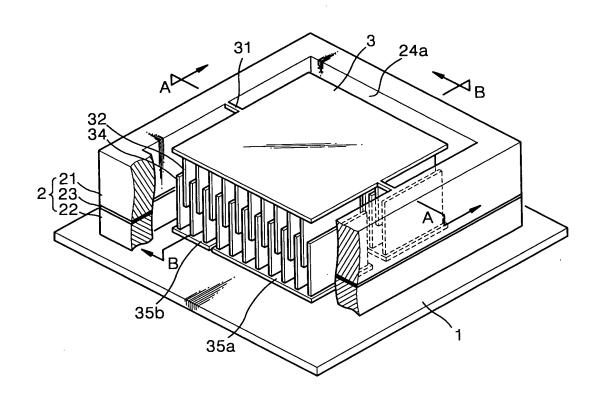
SILING DATE: JUNE **5**, 2001 IICRO-ACTUATOR AND MANUFACTING APPL

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FIG. 1



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FIG. 2

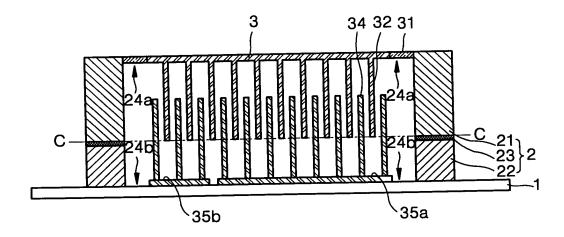
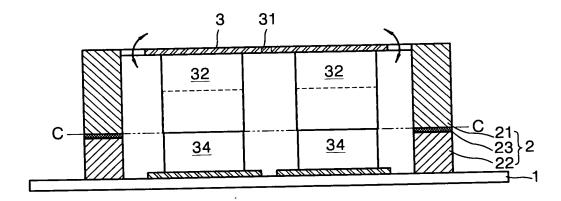


FIG. 3



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FIG. 4a

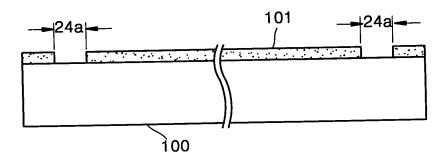


FIG. 4b

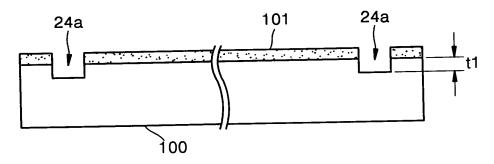


FIG. 4c

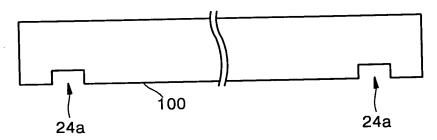
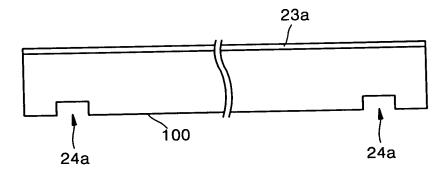


FIG. 4d



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FIG. 4e

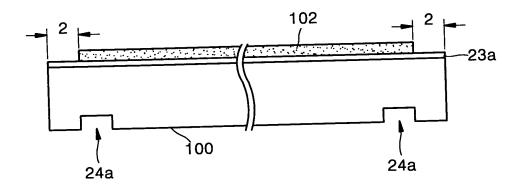


FIG. 4f

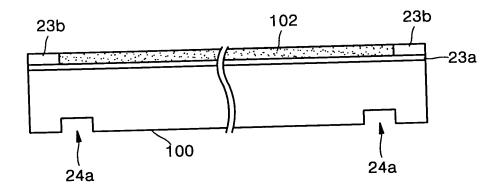
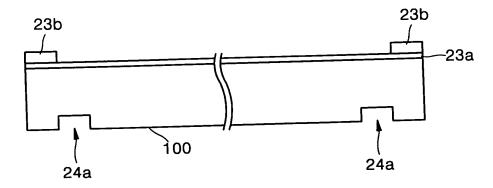


FIG. 4g



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FIG. 4h

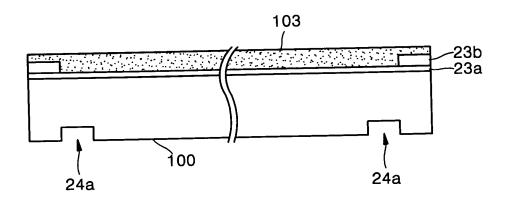


FIG. 4i

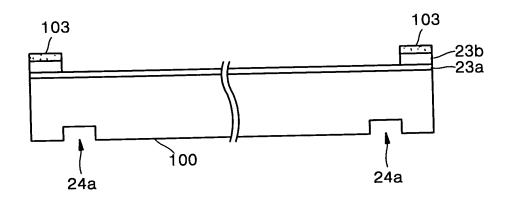
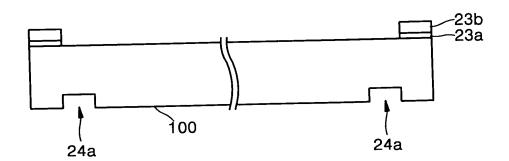


FIG. 4j



APPLN. FILING DATE: JUNE \$, 2001
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INVENTOR(S): JIN-HO LEE ET AL.

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FIG. 4k

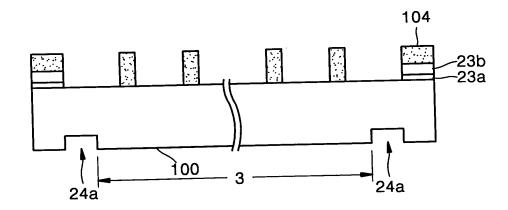


FIG. 41

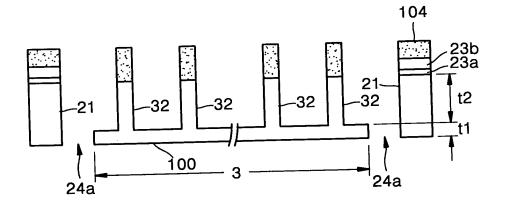
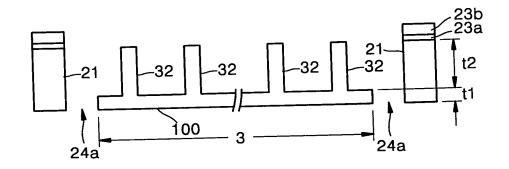


FIG. 4m



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TITLE CRO-ACTUATOR AND MANUFACT NO.

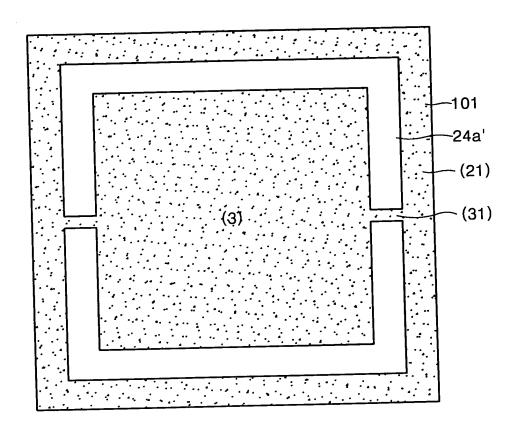
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INVENTOR(S): JIN-HO LEE ET AL.

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FIG. 5



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FIG. 6a

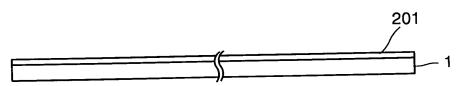


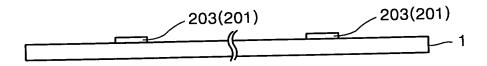
FIG. 6b



FIG. 6c



FIG. 6d



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INVENTOR(S): JIN-HO LEE ET AL.

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FIG. 7a

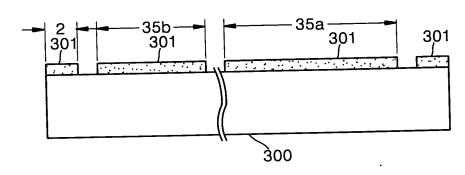


FIG. 7b

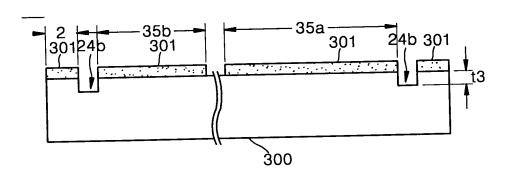


FIG. 7c

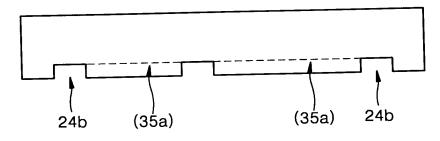
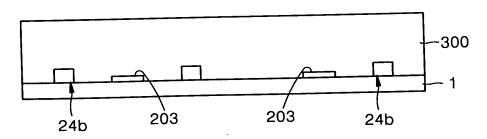


FIG. 7d



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TIT MICRO-ACTUATOR AND MANUFA RING

OD THEREOF

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FIG. 7e

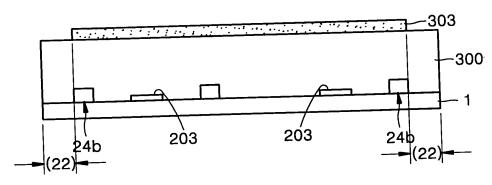


FIG. 7f

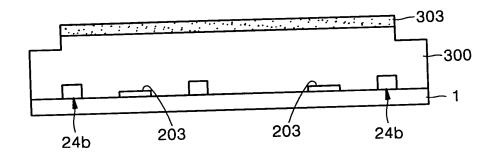


FIG. 7g

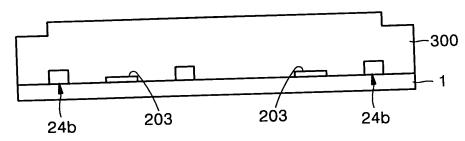
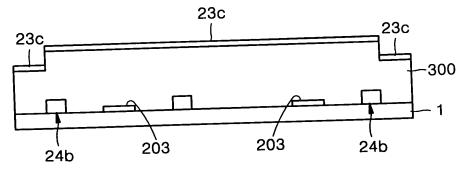


FIG. 7h



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OD THEREOF

INVENTOR(S): JIN-HO LEE ET AL.

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FIG. 7i

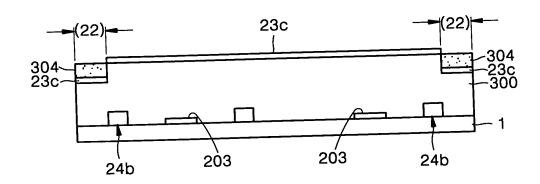


FIG. 7j

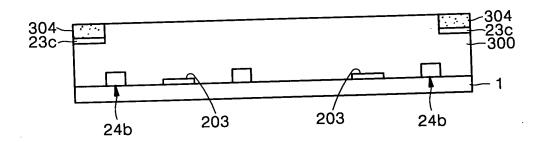
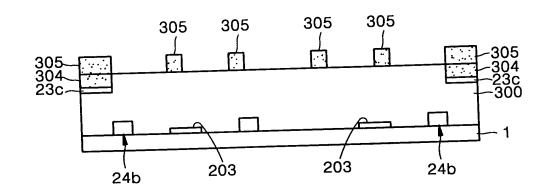


FIG. 7k



APPLN. FILING DATE: JUNE \$, 2001
TITLE VICRO-ACTUATOR AND MANUFACT RING **THEREOF**

INVENTOR(S): JIN-HO LEE ET AL.

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FIG. 71

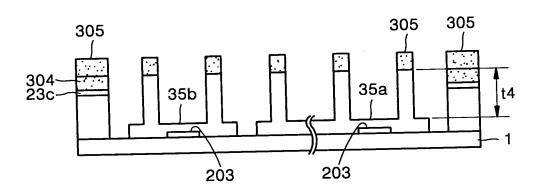


FIG. 7m

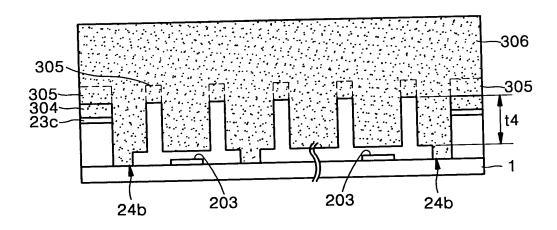
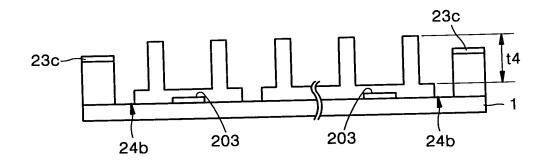


FIG. 7n



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METHOD THEREOF

INVENTOR(S): JIN-HO LEE ET AL.

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FIG. 8a

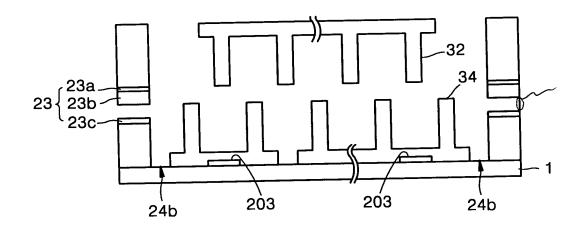
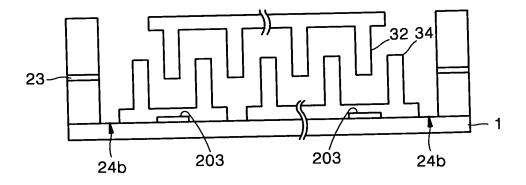


FIG. 8b



APPLN. FILING DATE: JUNE \$ 2001
TITLE CRO-ACTUATOR AND MANUFACT
METHOD THEREOF

INVENTOR(S): JIN-HO LEE ET AL.

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FIG. 9

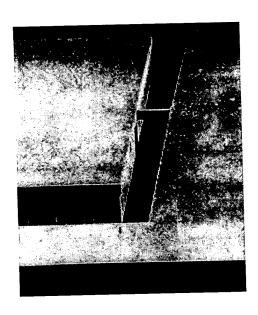
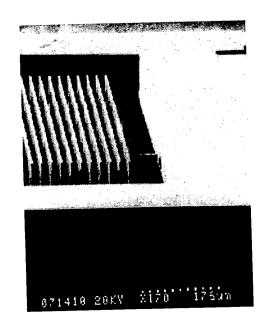


FIG. 10



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TITLE MICRO-ACTUATOR AND MANUFA
METHOD THEREOF

INVENTOR(S): JIN-HO LEE ET AL.

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FIG. 11

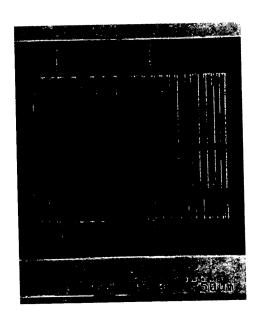
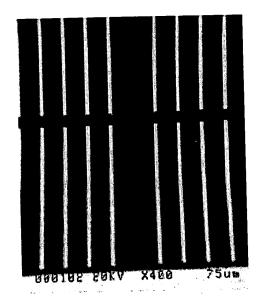


FIG. 12



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TIT MICRO-ACTUATOR AND MANUFACTING
METHOD THEREOF

INVENTOR(S): JIN-HO LEE ET AL.

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FIG. 13

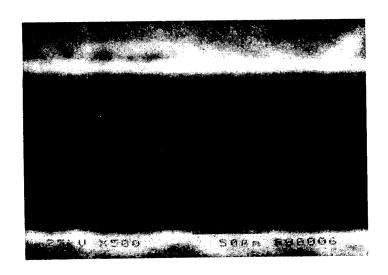


FIG. 14

